



E4U Workshop #3

Single European Sky

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SES/SESAR



- SESAR considered as input to the E4U study.
- View from SJU and Eurocontrol on the challenges
- Meeting with
 - Denis Koehl, SJU Senior Advisor Military Affairs
 - Edgar Reuber, ECTL SES Military Expert
 - Dominique Colin, ECTL Civil-Military Standardisation Senior Expert
- Summarised view on the following pages:



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- Role of Stakeholders:
 - ECTL and SJU focus on science and content
 - SJU research independent of existing regulatory framework (purely R&D)
 - Close the cycle:
 - Activities within ECTL and SJU will be synergetic with envisaged EDA's activities on deployment of industrialisation and military application.



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- UAS-Activities in the past
 - ECTL initiated work on integration of UAS, focus on integration through research. OAT spec, Global Hawk).
 - SJU: First phase: constant observation and discussion of running third party activities and needs. Increased demand: own activities started.
- UAS-Activities in the future
 - ECTL: Support to stakeholders, drive towards harmonisation, civil/mil, support to UAS regulation.
 - SJU: LOT 6 for Associated Partnership. First step: Development of Conops for UAS insertion



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- Detect & Avoid (D&A)
 - Still regulatory request also under IFR
 - SESAR research will implement envisages new roles of pilots, controllers and automated systems for 4D-Trajectory
 - SWIM-4D-Trajectory has not assessed D&A principles.
 - D&A function is important (TCAS, ACAS + further layers, not necessary visual imagery)
 - Concept must be proven safe
 - Final system is the target regardless existing regulation, providing benefits to manned aviation. Potential evolution of regulation to match the R&D solutions is assessed.



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- SWIM: Major Enabler
 - situation awareness, safety, information security and efficiency...
- Challenges
 - UAS integration step-by-step approach
 - Coordinated track: ECTL, SJU, EDA
 - Harmonised European regulation following ICAO